***Module 5 – Selenium IDE***

1. **What is Automation Testing?**

* **Automation Testing** is a software testing technique that uses automated tools and scripts to perform tests on software applications, instead of manual testing done by human testers.
* The primary goal of automation testing is to improve the efficiency, effectiveness, and coverage of the software testing process.
* **Key Features of Automation Testing:**
* **Speed and Efficiency**: Automation tests can be executed much faster than manual testing, especially for repetitive tasks.
* **Repeatability**: Automated tests can be run multiple times, which helps in regression testing and ensures that the software remains functional as new features are added.
* **Accuracy**: Automation reduces human error, ensuring more accurate and consistent results.
* **Cost-effective for Repetitive Tasks**: Although the initial setup cost might be high, automation is cost-effective for repetitive testing, especially in large projects or continuous integration environments.
* **Increased Coverage**: Automation allows you to run a larger number of test cases in less time, improving test coverage.

1. **Which Are The Browsers Supported By Selenium Ide?**

* Selenium IDE (Integrated Development Environment) is a popular tool for automating web browsers.
* It is a browser extension that enables users to record, edit, and debug tests in a user-friendly interface. However, Selenium IDE has specific browser support.
* **Browsers Supported by Selenium IDE:**
* **Google Chrome**: Selenium IDE is available as a Chrome extension and can be installed directly from the Chrome Web Store.
* **Mozilla Firefox**: Selenium IDE is also available as an extension for Firefox, which can be installed from the Firefox Add-ons Store.

1. **What are the benefits of Automation Testing?**

* **Automation Testing** offers numerous benefits to both developers and testers, improving the overall efficiency, quality, and reliability of the software testing process. Here are some of the key benefits are as under:

1. **Speed and Efficiency**
2. Reusability
3. Cost-Effective in the Long Run
4. Accuracy and Consistency
5. Increased Test Coverage
6. Regression Testing
7. Continuous Integration and Continuous Testing
8. Improved Test Reporting and Documentation
9. Better Use of Resources
10. **Support for Complex Applications**
11. **What are the advantages of Selenium?**

* **Selenium** is one of the most popular tools for automating web browsers, and it has several advantages that make it a go-to choice for many testers and developers. Here are the key advantages of Selenium:

1. Open Source and Free
2. Cross-Browser Compatibility
3. Cross-Platform Support
4. Language Support
5. Support for Parallel Test Execution
6. Integration with Other Tools
7. **Why testers should opt for Selenium and not QTP?**

* Selenium, however, supports a wide range of programming languages QTP/UFT test scripts run only on the Windows environment. They cannot be run across all browsers. On the other hand, selenium is OS-independent and allows tests of the scripts to run across all browsers.

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